Flexible, Fast and Secure: Why your gut feelings about Active Nets are wrong!

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Security

- Appropriate Restrictions of functionality
- Alien Active Loader - Restrict CAML
- Programming Language for Active Networks (PLAN)
- Secure Active Networking Environment (SANE)
Performance

- Alien Active Bridging - 40+ Mbps
- SANE Implementation - 5ms ping
- PLAN - 50+ Mbps capsules!
Compelling Applications

- Preventing ACK Implosion in Reliable Multicast
- On-the-fly updates of network elements (Active Bridging)
- PLAN per-packet QoS routing

http://www.cis.upenn.edu/~switchware